

Amendment

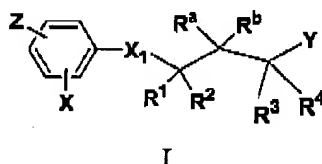
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USSN 09/848,697
QA211NPAmendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A compound of the formula



wherein X_1 is O, $S(O)_n$, $\text{---}\overset{\text{R}^5}{\text{N}}\text{---}$, $\text{CO}\text{---}\overset{\text{R}^6}{\text{N}}\text{---}$, or $\text{---CH}_2\text{---}$, with the proviso that when X_1 is $\text{---CH}_2\text{---}$, R^1 and R^2 are only halogen;

n is 0, 1 or 2;

R^a and R^b when taken together form an oxo ($=O$) group, or R^a and R^b are each independently hydrogen, OH, OCOR^9 , NH_2 , N_3 , NHCOOR^9 , NHCOCOR^9 , NHSO_2R^9 or F;

X is H, CF_3 , OCF_3 , halogen, $\text{C}_1\text{--C}_7$ alkyl, $\text{C}_2\text{--C}_7$ alkenyl, $\text{C}_2\text{--C}_7$ alkynyl or $\text{C}_3\text{--C}_7$ cycloalkyl, said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by COOR^8 , CN, $\text{C(O)NR}^6\text{R}^7$, PO_3R^8 , SO_3R^8 , heterocyclic, OR^8 , SH, $\text{S(O)}_n\text{R}^9$, NR^6R^7 , $\text{NH(CO)NR}^6\text{R}^7$, NH(CO)OR^9 , or aryl or heteroaryl, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , COOR^8 , SO_3R^8 , OCOR^9 , PO_3R^8 , and $\text{C(O)NR}^6\text{R}^7$ and heterocyclic;

R^1 and R^2 are each independently H, halogen, OR^9 , $\text{C}_1\text{--C}_7$ alkyl, $\text{C}_2\text{--C}_7$ alkynyl,

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C₂-C₇ alkenyl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by COOR⁸, CN, C(O)NR⁶R⁷, PO₃R⁸, SO₃R⁸, heterocyclic, OR⁸, SH, S(O)_nR⁹, NR⁶R⁷, NH(CO)NR⁶R⁷, NH(CO)OR⁹, OC(O)OR⁹, or aryl or heteroaryl, said aryl and heteroaryl being optionally substituted with one or two groups independently selected from NR⁶R⁷, OR⁸, COOR⁸, SO₃R⁸, OCOR⁹, PO₃R⁸, and C(O)NR⁶R⁷ and heterocyclic;

R³, R⁴ and Y are each independently H, halogen, OR¹⁰, S(O)_nR¹⁰, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by COOR⁸, CN, C(O)NR⁶R⁷, PO₃R⁸, SO₃R⁸, heterocyclic, OR⁸, SH, S(O)_nR⁹, NR⁶R⁷, NH(CO)NR⁶R⁷, NH(CO)OR⁹, OC(O)OR⁹, or aryl or heteroaryl, said aryl and heteroaryl being optionally substituted by one or two groups independently selected from NR⁶R⁷, OR⁸, COOR⁸, SO₃R⁸, OCOR⁹, PO₃R⁸, and C(O)NR⁶R⁷ and heterocyclic, with the proviso that not all of R³, R⁴ and Y may be the same halogen;

R⁵, R⁶ and R⁷ are each independently H, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by COOR⁸, CN, OR⁸, NR⁸R⁹, SO₃R⁸, PO₃R⁸, halogen, or aryl or heteroaryl, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from COOR⁸, SO₃R⁸, and PO₃R⁸ and heterocyclic;

R⁸ is H, C₁-C₇ saturated straight chain alkyl or cycloalkyl;

R⁹ is C₁-C₇ saturated straight chain alkyl or cycloalkyl;

R¹⁰ is C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl, aryl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally substituted by

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COOR⁸, CN, C(O)NR⁶R⁷, PO₃R⁸, SO₃R⁸, heterocyclic, OR⁸, SH, S(O)_nR⁹,
NR⁶R⁷, NH(CO)NR⁶R⁷, NH(CO)OR⁹, or aryl or heteroaryl, said aryl or heteroaryl
being optionally substituted by one or two groups independently selected from
NR⁶R⁷, OR⁸, COOR⁸, SO₃R⁸, OCOR⁸, PO₃R⁸, and C(O)NR⁶R⁷ and heterocyclic;

Z is OR¹¹, S(O)_nR¹¹, NR¹¹R¹² or CHR¹¹R¹²;

R¹¹ is C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl or C₃-C₇ cycloalkyl, said alkyl,
alkenyl, alkynyl or cycloalkyl group being substituted by NR¹³R¹⁴, S(O)_nR¹³, or
OR¹³;

R¹² is hydrogen, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl or C₃-C₇ cycloalkyl,
said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by
NR¹³R¹⁴, S(O)_nR¹³, or OR¹³;

R¹³ is SiR¹⁵R¹⁶R¹⁷, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl, aryl or C₃-C₇
cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being substituted by
one to three groups independently selected from COOR⁸, OR⁸, SiR¹⁵R¹⁶R¹⁷,
OR¹⁵, aryl, and biaryl and heteroaryl, said aryl[[.]] and biaryl and heteroaryl being
optionally substituted with one to three groups independently selected from halogen,
CF₃, OR⁸, COOR⁸, NO₂, and CN;

R¹⁴ is H, SiR¹⁵R¹⁶R¹⁷, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl, aryl or C₃-
C₇ cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally
substituted by one to three groups independently selected from COOR⁸, OR⁸, Si
R¹⁵R¹⁶R¹⁷, OR¹⁵, aryl, and biaryl and heteroaryl, said aryl[[.]] and biaryl and
heteroaryl being optionally substituted with one to three groups independently
selected from halogen, CF₃, OR⁸, COOR⁸, NO₂, and CN; and or

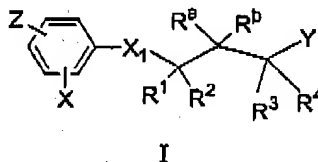
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~~R¹³ and R¹⁴ when taken together with the nitrogen atom to which they are attached may form a 5-7 membered heterocyclic ring with one or more heteroatoms selected from O, N and S; said ring being optionally substituted by OR⁸, COOR⁸, or C(O)NR⁵R⁶; and~~

~~R¹⁵, R¹⁶, R¹⁷ are each independently is C₁-C₇ alkyl, aryl, benzyl, benzhydryl, biaryl, heteroaryl, or (C₁-C₆) alkyl-aryl or (C₁-C₆) alkyl-heteroaryl; said aryl, benzyl, benzhydryl, and biaryl being optionally substituted by halogen, CF₃, OR⁸, COOR⁸, NO₂, CN, or C₁-C₇ alkyl.~~

Claim 2. (Currently Amended) A compound of the formula



or a pharmaceutically acceptable salt thereof wherein

X₁ is O, S(O)_n, $\text{—}\overset{\text{R}^5}{\text{N}}\text{—}$, $\text{CO—}\overset{\text{R}^6}{\text{N}}\text{—}$ or $\text{—CH}_2\text{—}$, with the proviso that when X₁ is $\text{—CH}_2\text{—}$, R¹ and R² are only halogen;

n is 0, 1 or 2;

R^a and R^b when taken together form an oxo (=O) group, or R^a and R^b are each independently hydrogen, OH, OCOR⁹, NH₂, N₃, NHCOOR⁹, NHCOCOR⁹, NHSO₂R⁹ or F;

X is H, CF₃, OCF₃, halogen, C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by COOR⁸, CN, C(O)NR⁶R⁷, PO₃R⁸, SO₃R⁸, heterocyclic, OR⁸, SH,

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$S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, ~~or aryl or heteroaryl~~, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^9$, PO_3R^8 , and $C(O)NR^6R^7$ and heterocyclic;

R^1 and R^2 are each independently H, halogen, OR^9 , C_1-C_7 alkyl, C_2-C_7 alkynyl, C_2-C_7 alkenyl or C_3-C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , heterocyclic, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, $OC(O)OR^9$, ~~or aryl or heteroaryl~~, said aryl and heteroaryl being optionally substituted with one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^9$, PO_3R^8 , and $C(O)NR^6R^7$ and heterocyclic;

R^3 , R^4 and Y are each independently H, OR^{10} , $S(O)_nR^{10}$, C_1-C_7 alkyl, C_2-C_7 alkenyl, C_2-C_7 alkynyl or C_3-C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , heterocyclic, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, $OC(O)OR^9$, ~~or aryl or heteroaryl~~, said aryl and heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^8$, PO_3R^8 , and $C(O)NR^6R^7$ and heterocyclic;

R^5 , R^6 and R^7 are each independently H, C_1-C_7 alkyl, C_2-C_7 alkenyl, C_2-C_7 alkynyl or C_3-C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, OR^8 , NR^8R^9 , SO_3R^8 , PO_3R^8 , halogen, ~~or aryl or heteroaryl~~, said aryl and heteroaryl being optionally substituted by one or two groups independently selected from $COOR^8$, SO_3R^8 , and PO_3R^8 and heterocyclic;

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R^8 is H, C_1 - C_7 saturated straight chain alkyl or cycloalkyl, CF_3 or CH_2CF_3 ;

R^9 is C_1 - C_7 saturated straight chain alkyl or cycloalkyl;

R^{10} is C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl, aryl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , ~~heterocyclic~~, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, or aryl or ~~heteroaryl~~, said aryl or ~~heteroaryl~~ being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^8$, PO_3R^8 , and $C(O)NR^6R^7$ and ~~heterocyclic~~;

Z is OR^{11} , $S(O)_nR^{11}$, $NR^{11}R^{12}$ or $CHR^{11}R^{12}$;

R^{11} is C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl or cycloalkyl group being substituted by $NR^{13}R^{14}$, $S(O)_nR^{13}$, or OR^{13} ;

R^{12} is hydrogen, C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by $NR^{13}R^{14}$, $S(O)_nR^{13}$ or OR^{13} ;

R^{13} is ~~$SiR^{15}R^{16}R^{17}$~~ , C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl, aryl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being substituted by one to three groups independently selected from $COOR^8$, OR^8 , ~~$SiR^{15}R^{16}R^{17}$~~ , OR^{15} , aryl, and biaryl and ~~heteroaryl~~, said aryl[[.]] and biaryl and ~~heteroaryl~~ being optionally substituted with one to three groups independently selected from halogen, CF_3 , OR^8 , $COOR^8$, NO_2 , and CN;

R^{14} is H, ~~$SiR^{15}R^{16}R^{17}$~~ , C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl, aryl or C_3 -

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C₇ cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally substituted by one to three groups independently selected from COOR⁸, OR⁸, SiR¹⁵R¹⁶R¹⁷, OR¹⁵, aryl, and biaryl and heteroaryl, said aryl[,] and biaryl and heteroaryl being optionally substituted with one to three groups independently selected from halogen, CF₃, OR⁸, COOR⁸, NO₂, and CN; and or

~~R¹³ and R¹⁴ when taken together with the nitrogen atom to which they are attached may form a 5-7 membered heterocyclic ring with one or more heteroatoms selected from O, N and S; said ring being optionally substituted by OR⁸, COOR⁸, or C(O)NR⁵R⁶; and~~

~~R¹⁵, R¹⁶, R¹⁷ are each independently is C₁-C₇ alkyl, aryl, benzyl, benzhydryl, biaryl, heteroaryl, or (C₁-C₆) alkyl-aryl or (C₁-C₆) alkyl-heteroaryl, said aryl, benzyl, benzhydryl, and biaryl being optionally substituted by halogen, CF₃, OR⁸, COOR⁸, NO₂, CN, or C₁-C₇ alkyl.~~

Claim 3. (Currently Amended) A compound of claim 2 wherein X₁ is O or S(O)_n and Y is OR¹⁰ in which R¹⁰ is C₁-C₇ alkyl, C₂-C₇ alkenyl, C₂-C₇ alkynyl, aryl or C₃-C₇ cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally substituted by COOR⁸, CN, C(O)NR⁶R⁷, PO₃R⁸, SO₃R⁸, heterocyclic, OR⁸, SH, S(O)_nR⁹, NR⁶R⁷, NH(CO)NR⁶R⁷, NH(CO)OR⁹, or aryl or heteroaryl, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from NR⁶R⁷, OR⁸, COOR⁸, SO₃R⁸, OCOR⁹, PO₃R⁸, and C(O)NR⁶R⁷ or heterocyclic, said R⁶, R⁷, R⁸ and R⁹ substituents being defined as in claim 2.

Claim 4. (Original) A compound of claim 3 in which R^a and R^b taken together represent an oxo (=O) group, or R^a and R^b are each independently hydrogen or OH.

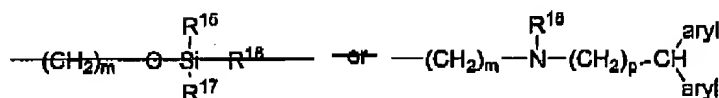
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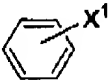
Claims 5-6. (Canceled).

Claim 7. (Currently Amended) A compound of claim 3 in which

Z is



in which m and p each independently represent an integer of one to six, R^{15} , R^{16} , R^{17} are each independently C_1 - C_7 alkyl or phenyl, R^{18} is C_1 - C_7 alkyl and aryl

represents  in which X^1 is halogen.

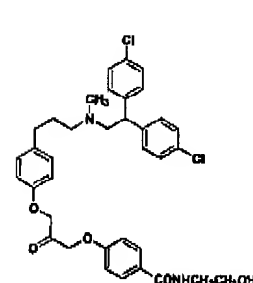
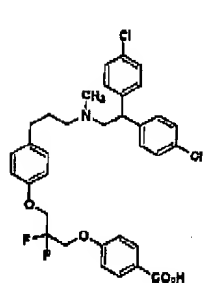
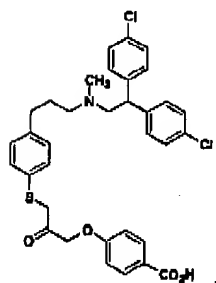
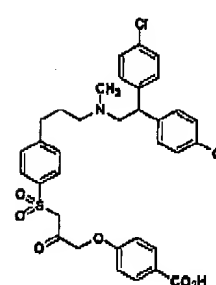
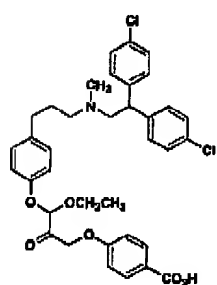
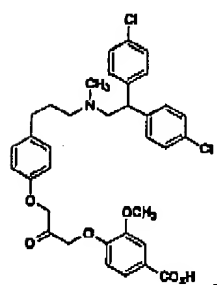
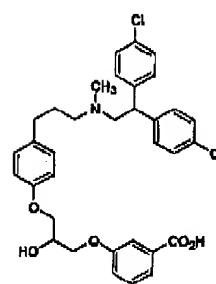
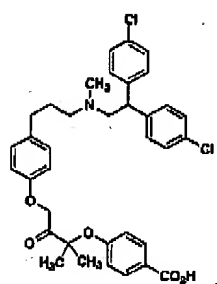
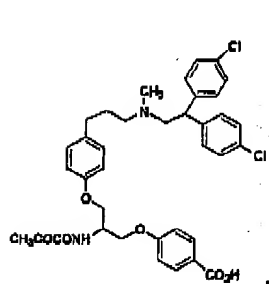
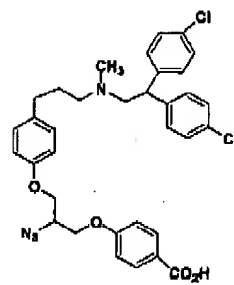
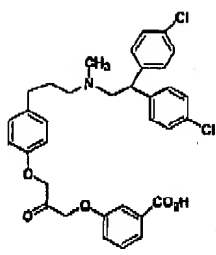
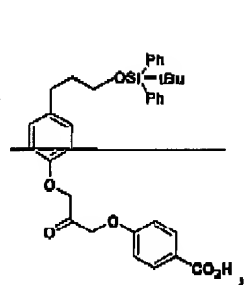
Claim 8. (Canceled).

Claim 9. (Original) A pharmaceutical composition for the inhibition of cytosolic phospholipase A_2 comprising a therapeutically effective amount of a compound of claim 1 and a pharmaceutically acceptable carrier.

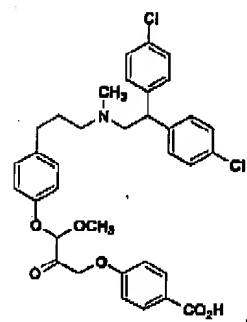
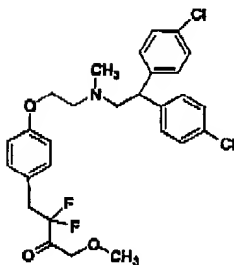
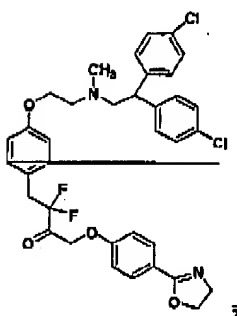
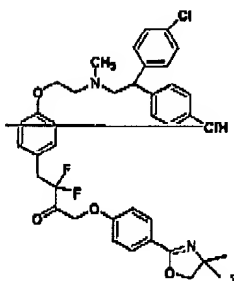
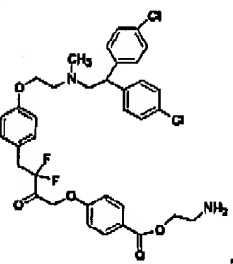
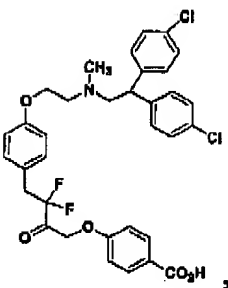
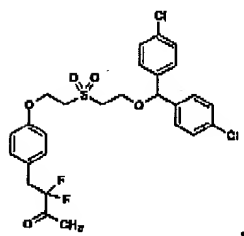
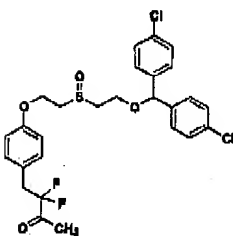
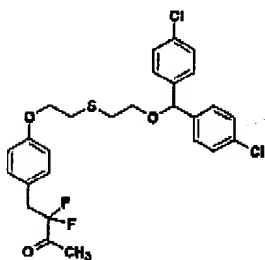
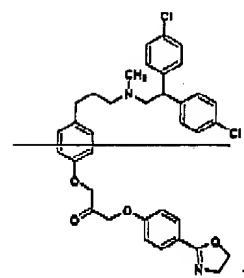
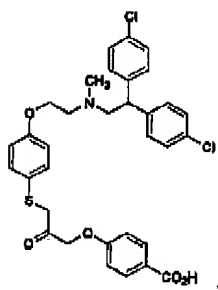
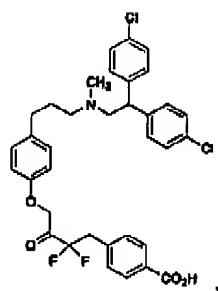
Claim 10. (Withdrawn) A method of inhibiting cytosolic phospholipase A_2 in a mammal in need thereof, comprising administering to said mammal a therapeutically effective amount of a compound of claim 1.

Claim 11. (Currently Amended) A compound selected from

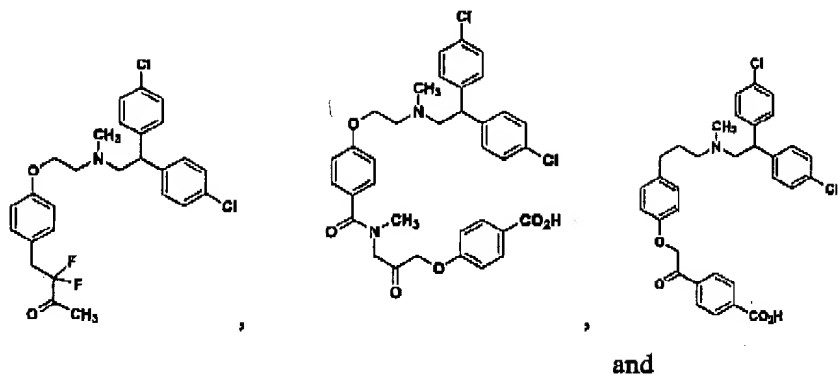
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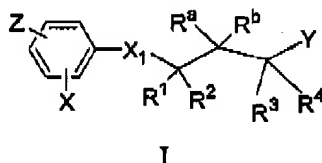
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or a pharmaceutically acceptable salt thereof.

Claim 12. (Currently Amended) A compound of the formula



or a pharmaceutically acceptable salt thereof wherein

X_1 is O, $S(O)_n$, $CO-N^{R^5}-$, or $-CH_2-$, with the proviso that when X_1 is $-CH_2-$, R^1 and R^2 are only halogen;

n is 0, 1 or 2;

R^a and R^b when taken together form an oxo ($=O$) group, or R^a and R^b are each independently hydrogen, OH, $OCOR^9$, NH_2 , N_3 , $NHCOCOR^9$, or F;

X is H;

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R^1 and R^2 are each independently H, halogen, OR^9 , or C_1-C_7 alkyl;

R^3 , R^4 and Y are each independently H, halogen, OR^{10} , or C_1-C_7 alkyl, said alkyl being optionally substituted by aryl, said aryl being optionally substituted by one or two $COOR^8$ groups, with the proviso that not all of R^3 , R^4 and Y may be the same halogen;

R^5 , R^6 , and R^7 are each independently hydrogen or C_1-C_7 alkyl, said alkyl being optionally substituted by OR^8 ;

R^8 is H or C_1-C_7 saturated straight chain alkyl;

R^9 is C_1-C_7 saturated straight chain alkyl;

R^{10} is C_1-C_7 alkyl or aryl, said alkyl or aryl group being optionally substituted by $COOR^8$, $C(O)NR^6R^7$, heterocyclic, or OR^8 ;

Z is OR^{11} or $CHR^{11}R^{12}$;

R^{11} is C_1-C_7 alkyl substituted by $NR^{13}R^{14}$, $S(O)_nR^{13}$, or OR^{13} ;

R^{12} is hydrogen;

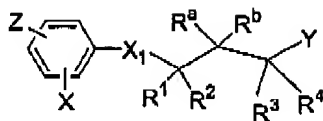
R^{13} is ~~$SR^{15}R^{16}R^{17}$~~ or C_1-C_7 alkyl, said alkyl substituted by one to three groups independently selected from OR^{15} and aryl, said aryl substituted with one halogen;

R^{14} is C_1-C_7 alkyl; and

~~R^{15} , R^{16} , and R^{17}~~ are each independently ~~is~~ C_1-C_7 alkyl, aryl, or benzhydryl, said aryl and benzhydryl being optionally substituted by halogen.

Claim 13. (Currently Amended) A compound of the formula

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or a pharmaceutically acceptable salt thereof wherein

X_1 is O, $S(O)_n$, or $-CH_2-$, with the proviso that when X_1 is $-CH_2-$, R^1 and R^2 are only halogen;

n is 0, 1 or 2;

R^a and R^b are each independently hydrogen, OH, $OCOR^9$, NH_2 , N_3 , $NHCOOR^9$, $NHCOCOR^9$, or F;

X is H, CF_3 , OCF_3 , halogen, C_1-C_7 alkyl, C_2-C_7 alkenyl, C_2-C_7 alkynyl or C_3-C_7 cycloalkyl, said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , heterocyclo, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, or aryl or heteroaryl, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^9$, PO_3R^8 , and $C(O)NR^6R^7$ and heterocyclo;

R^1 and R^2 are each independently H, halogen, OR^9 , C_1-C_7 alkyl, C_2-C_7 alkynyl, C_2-C_7 alkenyl or C_3-C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , heterocyclo, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, $OC(O)OR^9$, or aryl or heteroaryl, said aryl and heteroaryl being optionally substituted with one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^9$, PO_3R^8 , and $C(O)NR^6R^7$ and heterocyclo;

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R^3 and R^4 are each independently H, halogen, OR^{10} , $S(O)_nR^{10}$, C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , ~~heterocyclic~~, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, $OC(O)OR^9$, ~~or aryl or heteroaryl~~, said aryl and heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^8$, PO_3R^8 , and $C(O)NR^6R^7$ and ~~heterocyclic~~, with the proviso that not all of R^3 , R^4 and Y may be the same halogen;

Y is OR^{10} or $S(O)_nR^{10}$;

R^5 , R^6 and R^7 are each independently H, C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl and cycloalkyl group being optionally substituted by $COOR^8$, CN, OR^8 , NR^8R^9 , SO_3R^8 , PO_3R^8 , halogen, ~~or aryl or heteroaryl~~, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from $COOR^8$, SO_3R^8 , and PO_3R^8 and ~~heterocyclic~~;

R^8 is H, C_1 - C_7 saturated straight chain alkyl or cycloalkyl;

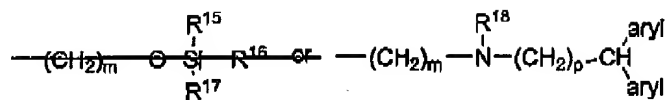
R^9 is C_1 - C_7 saturated straight chain alkyl or cycloalkyl;

R^{10} is C_1 - C_7 alkyl, C_2 - C_7 alkenyl, C_2 - C_7 alkynyl, aryl or C_3 - C_7 cycloalkyl, said alkyl, alkenyl, alkynyl, aryl or cycloalkyl group being optionally substituted by $COOR^8$, CN, $C(O)NR^6R^7$, PO_3R^8 , SO_3R^8 , ~~heterocyclic~~, OR^8 , SH, $S(O)_nR^9$, NR^6R^7 , $NH(CO)NR^6R^7$, $NH(CO)OR^9$, ~~or aryl or heteroaryl~~, said aryl or heteroaryl being optionally substituted by one or two groups independently selected from NR^6R^7 , OR^8 , $COOR^8$, SO_3R^8 , $OCOR^8$, PO_3R^8 , and $C(O)NR^6R^7$ or ~~heterocyclic~~;
and


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Z is



in which m and p each independently represent an integer of one to six, ~~R¹⁵, R¹⁶,~~
~~R¹⁷~~ are each independently C₁-C₇ alkyl or phenyl; R¹⁸ is C₁-C₇ alkyl and aryl

represents  in which X¹ is halogen.

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